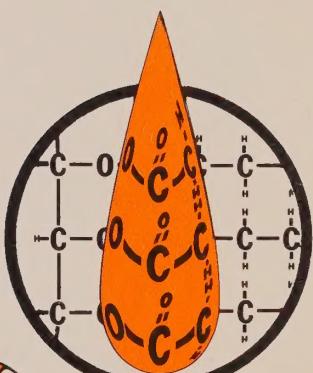


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DEPARTMENT OF INDUSTRY, TRADE AND COMMERCE

FATS AND OILS IN CANADA

ANNUAL REVIEW

1981

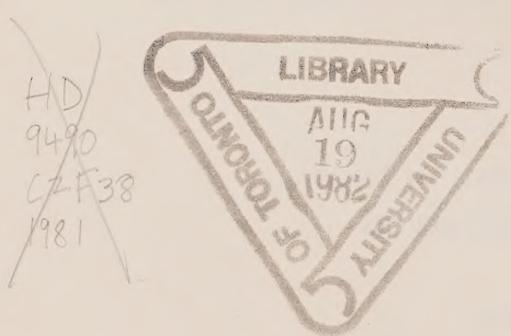
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CHAPTER I

WORLD PRODUCTION OF OILSEEDS, PROTEIN MEALS, FATS AND OILS

World Production

According to the U.S.D.A., world oilseed production increased by over 9 per cent in 1981 to nearly 175 million tonnes. Oilseeds showing major increases were soybeans (up 11%), cottonseed (up 8%), and peanuts (up 10%). Soybeans comprised 51.5% of total oilseeds produced in 1981.

Protein meal production increased by nearly 10% in 1981, led by large increases in soybean and rapeseed meals. Soybean meal comprised over 67% of total oilmeal production in 1981.

Oils and fats production in 1981 declined slightly, due to decreases in soybean oil, peanut oil and sunflowerseed oil.

Oilseed Production, By Crop

Soybean production increased in most countries but principally in the United States. Brazilian production was off slightly. Cottonseed, peanuts, sunflowerseed, rapeseed and flaxseed all showed increases. The production total for these six crops was 164.4 million tonnes, up 9.7% over 1980 production.

Oilseeds, Oils and Fats Trade, 1977-81

The data in Table 3 is repeated from last year's Review, as the U.S.D.A. has not yet published revised data. The data shows a steady uptrend in the volume of edible vegetable oils traded. Industrial oils have not increased, animal fats show some increase while marine oils do not show any trend.

Table 1

WORLD PRODUCTION^{1/}
OILSEEDS-PROTEIN MEALS-FATS/OILS
 (in Thousand Tonnes)

<u>OILSEEDS</u>	<u>1977/78</u>	<u>1978/79</u>	<u>1979/80</u>	<u>1980/81^{2/}</u>	<u>1981/82^{3/}</u>
Soybeans	72 021	77 225	93 371	80 942	90 001
Cottonseed	24 926	23 897	25 197	25 542	27 549
Peanuts	17 112	18 148	17 682	16 731	18 391
Sunflowerseed	12 890	12 770	15 242	13 091	14 203
Rapeseed	7 918	10 703	10 180	11 323	12 033
Sesameseed	1 735	1 819	1 767	1 667	1 802
Safflowerseed	849	1 046	1 116	833	791
Flaxseed	2 954	2 437	2 667	2 216	2 224
Castor Beans	789	902	908	859	905
Copra	4 941	4 404	4 706	5 096	5 395
Palm Kernels	1 208	1 338	1 382	1 459	1 533
TOTAL	147 343	154 689	174 218	159 759	174 827

<u>PROTEIN MEALS^{4/}</u>					
Soybeans	49 689	53 538	65 470	56 012	65 552
Cottonseed	9 077	8 616	9 198	9 195	10 027
Peanut	3 776	4 059	3 794	3 567	3 905
Sunflower	4 411	4 371	5 205	4 507	4 889
Rapeseed	4 153	5 605	5 343	5 932	6 337
Sesameseed	647	682	661	624	680
Safflowerseed	519	641	683	511	485
Linseed	1 680	1 379	1 511	1 260	1 259
Copra	1 729	1 541	1 647	1 784	1 888
Palm Kernel	616	682	705	744	782
Fish	4 780	4 887	4 621	4 585	4 516
TOTAL	81 077	86 001	98 838	88 721	97 320

<u>FATS & OILS</u> ^{4/}	<u>1977/78</u>	<u>1978/79</u>	<u>1979/80</u>	<u>1980/81</u> ^{2/}	<u>1981/82</u> ^{3/}
<u>EDIBLE VEGETABLE</u>					
Soybeans	10 834	11 681	14 341	12 224	13 673
Cottonseed	3 171	3 002	3 215	3 202	3 504
Peanut	3 147	3 383	3 162	2 972	3 254
Sunflowerseed	4 724	4 663	5 521	4 716	5 102
Rapeseed	2 699	3 662	3 465	3 838	4 027
Sesameseed	624	658	638	602	656
Safflowerseed	264	324	346	257	244
Olive	1 620	1 554	1 383	1 840	1 307
Corn	436	445	470	518	525
Coconut	3 162	2 819	3 012	3 261	3 453
Palm Kernel	568	629	650	686	721
Palm	3 591	4 085	4 552	4 976	5 357
Babassu	143	151	150	130	130
TOTAL	34 983	37 055	40 905	39 224	41 952
<u>INDUSTRIAL</u>					
Linseed	907	745	816	680	680
Castor	337	386	388	367	387
Olive Residue	171	142	144	172	132
Oiticica	14	14	14	14	14
Tung	95	101	100	90	90
TOTAL	1 524	1 388	1 462	1 323	1 303
<u>MARINE OILS</u>					
Fish	1 216	1 268	1 135	1 239	1 211
Whale	8	10	10	10	10
Sperm Whale	58	58	58	58	58
TOTAL	1 282	1 336	1 203	1 307	1 279

<u>ANIMAL FATS</u>	<u>1977/78</u>	<u>1978/79</u>	<u>1979/80</u>	<u>1980/81^{2/}</u>	<u>1981/82^{3/}</u>
Butter (Fat Content)	4 930	4 950	4 957	4 927	4 962
Lard	3 703	3 876	4 012	3 827	3 804
Tallow and Grease	5 800	5 600	5 550	6 047	6 038
 TOTAL	 14 433	 14 426	 14 519	 14 801	 14 804
 TOTAL (FATS & OILS)	 52 222	 54 205	 58 089	 56 656	 59 338

^{1/} Split year includes Northern Hemisphere crops harvested in the late months of the first year shown combined with Southern Hemisphere and certain Northern Hemisphere crops harvested in the early months of the following year. Animal, marine and palm products are calendar year estimates for the second year shown.

^{2/} Preliminary

^{3/} Forecast

^{4/} Oilseed meal and oil production calculated from assumed extraction rates represent potential not actual production.

Source: United States Department of Agriculture
FOP 22-81

Table 2

PRODUCTION OF MAJOR OILSEEDS, BY MAIN PRODUCERS, IN THOUSANDS OF TONNES ^{1/}

	<u>Average 1974/75-1978/79</u>	<u>1980/81</u> ^{2/}	<u>1981/82</u> ^{3/}
SOYBEANS:			
United States	41 813	48 772	56 527
Brazil	10 660	15 500	15 200
China, Mainland	8 100	7 880	8 100
Argentina	1 796	3 500	4 300
Paraguay	332	600	625
Other	3 825	4 690	5 249
TOTAL	66 526	80 942	90 001
COTTONSEED:			
Soviet Union	4 669	5 082	5 000
China, Mainland	4 436	5 414	5 800
United States	3 926	4 056	5 614
India	2 450	2 700	2 800
Pakistan	1 024	1 368	1 500
Other	7 092	6 922	6 835
TOTAL	23 597	25 542	27 549
PEANUTS: (IN SHELL)			
India	5 921	5 700	6 200
China, Mainland	2 501	3 600	3 600
United States	1 723	1 047	1 814
Senegal	1 064	489	600
Sudan	890	799	800
Brazil	416	310	350
South Africa	227	300	350
Other	5 010	4 486	4 677
TOTAL	17 752	16 731	18 391
SUNFLOWERSEED:			
Soviet Union	5 658	4 652	4 800
Argentina	1 149	1 260	1 650
United States	889	1 748	2 101
Romania	766	650	850
Bulgaria	390	378	300
Other	2 418	4 403	4 502
TOTAL	11 270	13 091	14 203

Average 1974/75-1978/79 1980/81 ^{2/} 1981/82 ^{3/}

RAPESEED:

India	1 850	2 150	2 200
China, Mainland	1 528	2 384	3 800
Canada	1 854	2 483	1 794
Poland	726	566	483
France	526	1 091	1 023
Other	2 013	2 635	2 733
TOTAL	8 497	11 323	12 033

FLAXSEED:

India	524	525	400
Argentina	599	585	700
Soviet Union	323	196	200
Canada	460	465	477
United States	306	206	200
Other	397	239	247
TOTAL	2 609	2 216	2 224
TOTAL (ABOVE CROPS)	130 251	149 845	164 401

^{1/} Split year includes Northern Hemisphere crop harvested in the late months of the first year shown combined with Southern Hemisphere and certain Northern Hemisphere crops harvested in the early months of the following year.

^{2/} Preliminary

^{3/} Forecast

Table 3

WORLD OILSEEDS, OILS & FATS TRADE, 1977-81
IN THOUSANDS OF TONNES 1/

	<u>1977</u>	<u>1978</u>	<u>Preliminary 1979</u>	<u>Forecast 1980</u>	<u>Forecast 1981</u>
<u>WORLD EDIBLE VEGETABLE OILS</u>					
Cottonseed	409	415	372	410	410
Peanut	900	690	741	780	711
Soybean	4 825	5 668	6 105	6 725	6 950
Sunflower	892	1 316	1 236	1 425	1 115
Rapeseed	960	937	1 252	1 250	1 100
Sesame	95	90	95	100	108
Safflower	13	20	19	25	18
Olive 2/	103	137	129	125	150
Corn	97	102	118	150	122
Coconut	1 433	1 583	1 234	1 400	1 550
Palm Kernel	319	310	380	420	450
Palm	2 059	2 059	2 411	2 750	3 000
Babassu	4	9	5	5	5
TOTAL	12 035	13 336	14 097	15 565	15 689
<u>INDUSTRIAL OILS</u>					
Linseed	366	501	381	390	375
Castor	186	221	238	210	225
Oiticica	2	10	5	5	5
Tung	36	35	38	40	30
TOTAL	590	767	662	645	635
<u>ANIMAL FATS</u>					
Butter (Fat Content)	805	764	956	881	863
Lard	575	534	524	520	520
Tallow & Greases 3/	2 313	2 263	2 357	2 535	2 535
TOTAL	3 693	3 561	3 837	3 936	3 918

	<u>1977</u>	<u>1978</u>	Preliminary <u>1979</u>	Forecast <u>1980</u>	Forecast <u>1981</u>
<u>MARINE OILS</u>					
Whale	11	5	7	5	5
Sperm Whale	18	16	13	12	10
Fish (Including Liver)	545	644	726	650	650
	<hr/>	<hr/>	<hr/>	<hr/>	<hr/>
TOTAL	574	665	746	667	665
	<hr/>	<hr/>	<hr/>	<hr/>	<hr/>
WORLD TOTAL	16 892	18 329	19 342	20 813	20 907
	<hr/>	<hr/>	<hr/>	<hr/>	<hr/>

1/ Exports from producing countries. Includes oil equivalent of seed exports.

2/ Net exports from Mediterranean basin.

3/ Includes edible and inedible tallow and grease. Excludes animal oils.

Source: USDA FOP-27-80

CHAPTER 2

CANADIAN OILSEED PRODUCTION, PROCESSING AND TRADE IN FATS AND OILS

Canadian Oilseeds: Area, Yield, Production

Oilseed acreage in general declined sharply in 1981, with Canola/rapeseed showing the largest decrease. Yields were up except in the case of soybeans. Flaxseed production increased, but Canola/rapeseed, soybeans, sunflowerseed and mustardseed all decreased because of lower seeded acreage.

Oilseed Processing

Statistics Canada publishes crush volume data for Canola and soybeans only. For the 1980/81 crop year which ended July 31, 1981, Canola crushings were up by 11.8% while soybean crush volume was off marginally. As a result, Canola oil and meal production increased by about 14.6% and 10% respectively, while soybean oil and meal production were relatively unchanged.

Trade - Oils and Fats

Vegetable oils comprise nearly 90% of the edible oils and fats imported, and about 50% of exports in this category. Tallow is a major export item at 40% of exports. In 1981, total imports of fats and oils declined by 10% in volume, while exports grew by 13%. Much of the export growth in 1981 came from Canola/rapeseed oil.

Table 4

CANADIAN OILSEEDS: AREA, YIELD, PRODUCTION

	<u>1977</u>	<u>1978</u>	<u>1979</u>	<u>1980</u>	<u>1981</u>	
(Thousands of Hectares)						
Flaxseed	596	518	927	575	465	1 091
Canola/Rapeseed	1 453	2 806	3 439	2 080	1 448	1 359
Soybeans	202	263	283	283	287	2 546
Mustardseed	74	98	62	93	76	1 058
Sunflowerseed	68	87	164	136	121	1 167
Production						
						(Tonnes)
Flaxseed	650	300	538	500	835	700
Canola/Rapeseed	1 973	100	3 349	700	3 560	700
Soybeans	517	100	475	134	671	700
Mustardseed	79	380	103	420	53	300
Sunflowerseed	80	967	113	853	220	900
Oil Equivalent						
						(Tonnes)
Flaxseed						230
Canola/Rapeseed						826
Soybeans						93
Mustardseed						-
Sunflowerseed						32
Oil Conversion Factors:						
	Flaxseed	.....	.....	.....	.....	35.4%
	Rapeseed	.....	.....	.....	.....	41.9%
	Soybeans	.....	.....	.....	.....	18.0%
	Mustardseed	.....	.....	.....	.....	Not Applicable
	Sunflowerseed	....	....	....	....	40.0%

Oil Conversion Factors:
 Flaxseed 35.4%
 Rapeseed 41.9%
 Soybeans 18.0%
 Mustardseed Not Applicable
 Sunflowerseed ... 40.0%

Table 5

CANADIAN OILSEED PRODUCTION BY PROVINCE

	A R E A		Y I E L D		P R O D U C T I O N			
	(Thousand Hectares)		(Kilograms Per Hectare)		(Tonnes)			
	1979	1980	1981	1979	1981	1979	1980	1981
<u>FLAXSEED</u>								
Manitoba	506	324	283	929	666	950	469	900
Saskatchewan	324	182	142	800	907	1 070	259	100
Alberta	97	69	40	1 100	1 214	1 400	106	700
<u>CANOLA/RAPESEED</u>								
Manitoba	567	324	263	1 160	980	1 293	657	000
Saskatchewan	1 335	809	526	960	1 234	1 293	1 281	400
Alberta	1 416	890	627	1 049	1 274	1 193	1 485	500
British Columbia	121	57	32	1 125	995	816	136	100
<u>SOYBEANS</u>								
Ontario	283	283	287	2 373	2 520	2 199	671	700
<u>SUNFLOWERSEED</u>								
Manitoba	154	129	117	1 231	1 231	1 462	208	700
Saskatchewan	10	7	4	1 220	1 043	950	12	200
<u>MUSTARDSEED</u>								
Manitoba	10	18	17	950	905	1 012	9 500	16 300
Saskatchewan	38	61	45	795	915	1 029	30 200	55 800
Alberta	14	20	14	971	1 270	1 357	13 600	25 400

Table 6

CANADIAN CRUSHINGS OF VEGETABLE OILSEEDS AND
PRODUCTION OF OIL AND MEAL BY CROP YEAR
(Tonnes)

<u>CRUSHINGS</u>	<u>1976/77</u>	<u>1977/78</u>	<u>1978/79</u>	<u>1979/80</u>	<u>1980/81</u>
Flaxseed	x 1/ —	x 1/ —	x 1/ —	x 1/ —	x 1/ —
Canola/Rapeseed	549 174	630 300	725 100	897 300	1 003 300
Soybeans	684 995	728 400	742 600	938 400	929 700
Sunflowerseed	x 1/ —	x 1/ —	x 1/ —	x 1/ —	x 1/ —
TOTAL	1 234 709	1 358 700	1 467 700	1 835 700	1 933 000
<u>OIL PRODUCTION</u>					
Flaxseed	x 1/ —				
Canola/Rapeseed	225 805	259 000	296 300	364 900	418 200
Soybeans	115 616	125 600	129 000	157 000	158 900
Sunflowerseed	x 1/ —	x 1/ —	x 1/ —	x 1/ —	x 1/ —
TOTAL	341 421	384 600	425 300	521 900	577 100
<u>MEAL PRODUCTION</u>					
Flaxseed	x 1/ —				
Canola/Rapeseed	314 903	357 500	416 700	520 800	573 600
Soybeans	540 689	575 400	576 700	738 300	731 700
Sunflowerseed	x 1/ —	x 1/ —	x 1/ —	x 1/ —	x 1/ —
TOTAL	855 592	932 900	993 400	1 259 100	1 305 300

^{1/} Confidential - to meet secrecy requirements
of the Statistics Act.

Table 7

CANADIAN IMPORTS OF FATS AND OILS
(Tonnes)

PRIMARILY EDIBLE

<u>Vegetable Oils</u>	<u>1977</u>	<u>1978</u>	<u>1979</u>	<u>1980</u>	<u>1981</u>
Soybean Oil	28 138	28 069	22 234	12 139	4 294
Cottonseed Oil	5 497	4 723	4 285	4 616	2 680
Corn Oil	15 482	19 707	16 627	17 284	16 225
Peanut Oil	6 845	6 460	5 461	4 977	4 137
Coconut Oil	24 218	22 313	25 712	20 216	23 075
Palm Oil	31 179	23 205	18 366	19 968	15 185
Palm Kernel Oil	7 192	7 252	8 807	8 908	8 603
Olive Oil	4 840	2 814	2 676	4 296	2 877
Cocoa Butter	4 835	3 562	3 495	3 717	4 505
Sunflowerseed Oil	59	171	460	31	63
Vegetable Oils & Fats NES	2 270	3 235	2 032	4 048	4 724
Vegetable Cooking Fats & Packaged Salad Oils	423	163	23	35	61
TOTAL	130 978	121 674	110 178	100 235	86 429
<u>Animal Fats</u>					
Lard	17 841	13 106	10 751	8 289	10 529
Butter ^{1/}	13	4 165	6	36	23
TOTAL	17 854	17 271	10 756	8 325	10 552
<u>Marine Oils</u>					
Fish & Marine Oil	410	654	308	529	431
TOTAL	410	654	308	529	431
TOTAL EDIBLE OILS AND FATS	149 242	139 599	121 242	109 089	97 412

<u>PRIMARILY INEDIBLE</u>	<u>1977</u>	<u>1978</u>	<u>1979</u>	<u>1980</u>	<u>1981</u>
Castor Oil	1 311	1 684	1 721	1 183	1 740
Tung Oil	699	680	640	526	613
Tallow 2/	590	498	1 483	2 183	1 959
Animal Oil & Fats NES	568	4 810	1 186	1 547	1 495
Animal Grease 3/	1 790	2 298	3 335	2 343	1 303
TOTAL INEDIBLE OILS & FATS	4 958	9 870	8 365	7 782	7 110
TOTAL EDIBLE & INEDIBLE FATS & OILS IMPORTS	154 200	149 469	129 607	116 871	104 522

^{1/} Butter imports have been converted to oil equivalent, using the factor of 81 per cent.

^{2/} This class includes both edible and inedible tallow. The proportions are not known.

^{3/} This category includes Animal Grease, NES and Wool Grease and Lanolin.

Table 8

CANADIAN EXPORTS OF FATS AND OILS
(Tonnes)

PRIMARILY EDIBLE

<u>Vegetable Oils</u>	<u>1977</u>	<u>1978</u>	<u>1979</u>	<u>1980</u>	<u>1981</u>
Soybean Oil	23	1 406	9 626	14 140	10 927
Canola/Rapeseed Oil	102 700	82 348	119 476	172 686	190 659
Margarine, Shortening	634	1 559	955	462	504
Vegetable Oil & Fats NES	1 413	3 512	7 220	2 228	18 343
TOTAL	104 770	88 825	137 277	189 516	220 433

Animal Fats

Butter (Oil Equiv.) ^{1/}	273	189	16	51	49
TOTAL	273	189	16	51	49

Marine Oils

Herring Oil	4 124	3 679	6 274	4 724	4 196
Whale Oil	14	11	--	8	3
TOTAL	4 138	3 690	6 274	4 732	4 199

PRIMARILY INEDIBLE

Linseed Oil	5 717	8 099	4 650	3 763	12 427
Tallow 2/	140 829	138 053	149 267	166 379	171 306
Marine Oils 3/	11 902	5 707	5 166	4 117	3 936
Animal Fats & Oils NES	6 931	5 062	5 311	8 667	15 257
TOTAL INEDIBLE FATS AND OILS	165 379	156 921	164 394	182 926	202 926
TOTAL EDIBLE AND INEDIBLE FATS AND OILS	274 560	249 625	307 961	377 225	427 607

FOOTNOTES TO

CANADIAN EXPORTS OF FATS AND OILS

- 1/ Butter exports have been converted to oil equivalent, using the factor of 81 per cent.
- 2/ This class includes both edible and inedible tallow. The proportions are not known.
- 3/ Marine Oil exports listed under "Inedible Oils" include sun-rotted cod liver oil, a non-specified group of fish and marine oil, and fish liver and visceral oils. While most of these oils can be assumed to be of an inedible grade, a small quantity of edible soy may have been included.

Source: Statistics Canada, Catalogue No. 65-007

CHAPTER 3

THE CANADIAN CANOLA/RAPESEED SITUATION

Production and Exports - Seed

For the 1980/81 crop year, carry-in stocks of seed were nearly 1.5 million tonnes, production was 2.5 million tonnes, exports 1.4 million tonnes and the domestic crush just over 1 million tonnes. The domestic crush volume has been increasing gradually, and this trend should continue in 1981/82 as additional plant capacity is utilized.

Production and Exports - Oil and Meal

Statistics Canada reports that 418 200 tonnes of oil and 573 600 tonnes of meal were produced in 1980/81. This is a growth rate of 11% for oil and meal.

Exports of these products are also expanding at about 30% for oil and 16% for meal, compared to the previous crop year.

Expanded export sales reflect the competitiveness of these products in terms of price and quality. In 1981, Canola oil was exported (in some instances as food aid) to 15 countries, while Canola meal found its way to 7 countries.

Table 9

CANADIAN SUPPLY AND DISPOSITION OF CANOLA/RAPESEED,

OIL AND MEAL

(Crop Year)

<u>SEED</u>	<u>1976/77</u>	<u>1977/78</u>	<u>1978/79</u>	<u>1979/80</u>	<u>1980/81</u>
	(Tonnes)				
Stocks	1 048 648	199 000	325 000	1 068 100	1 476 900
Production	836 886	1 973 100	3 497 100	3 411 100	2 483 400
Exports	1 017 871	1 013 600	1 642 295	1 742 600	1 372 600
Domestic Crushings	549 714	630 300	725 100	897 300	1 003 300
<u>OIL</u>					
Exports	91 648	73 500	109 969	151 500	198 100
Domestic Production	225 806	259 000	290 040	375 969	418 200
<u>MEAL</u>					
Exports	107 088	156 300	172 476	176 300	204 000
Domestic Production	314 903	357 500	416 933	515 948	573 600

Source: Statistics Canada, Catalogue No. 22-007

Table 10

CANADIAN EXPORTS OF CANOLA/RAPSEED

(Tonnes)

<u>DESTINATION</u>	<u>1977</u>	<u>1978</u>	<u>1979</u>	<u>1980</u>	<u>1981</u>
Algeria	38 266	74 498	43 986	34 773	23 100
Australia	5	--	18	54	1 480
Bangladesh	17 530	28 969	13 151	22 700	8 575
Belgium-Luxembourg	248	1 000	750	1 100	500
Brazil	27	1	89 600	--	--
Czechoslovakia	--	2 500	2 490	--	--
Denmark	18	73	--	37	55
Finland	82	116	44	108	--
France	1 519	755	38 676	20 359	18
Germany, West	66 843	50 364	232 532	92 439	36 964
India	13 650	207 013	18 823	9 225	7 150
Italy	1 930	--	15 080	--	--
Japan	746 082	801 229	1 157 771	994 622	1 168 836
Korea, South	--	162	38 152	14 160	23 931
Mexico	--	--	--	7 641	40 761
Morocco	--	--	24 155	11 000	--
Netherlands	111 876	36 545	275 488	127 557	70 467
Singapore	12 887	--	--	--	--
Spain	70	253	1 244	253	3 047
Sweden	104	1	--	--	--
Switzerland	--	2 794	--	--	5
United Kingdom	5 884	1 365	11 091	9 566	18 714
United States	563	466	316	11 823	424
USSR	--	--	24 898	720	--
Venezuela	--	27	--	--	20
Other	10 359	1	2	29	2
 TOTAL	 1 027 943	 1 208 132	 1 988 267	 1 358 166	 1 404 049
 TOTAL VALUE (\$'000)	 310 047	 369 549	 631 446	 421 901	 464 520

Source: Statistics Canada, Catalogue No. 65-004

Table 11

CANADIAN EXPORTS OF CANOLA/RAPESEED OIL

(Tonnes)

DESTINATION	1977	1978	1979	1980	1981
Algeria	3 216	--	6 030	--	21 275
Australia	2 917	3 314	3 348	4 280	8 893
Bangladesh	7 000	9 014	2 698	--	--
Brazil	--	--	--	707	104
Chile	--	500	12 178	3 344	--
Dominican Republic	--	--	--	878	--
Ecuador	504	--	--	--	--
Ethiopia	--	--	--	799	--
Germany, West	2 217	--	--	--	--
Haiti	2 434	--	--	109	--
Hong Kong	5 133	5 592	5 987	13 358	15 938
India	66 794	78 525	70 069	117 524	88 811
Japan	6 415	12 516	8 664	9 769	19 808
Lebanon	650	--	--	--	--
Leeward-Windward Is.	--	14	14	16	17
Madagascar	284	--	--	--	--
Mexico	--	178	938	349	345
Morocco	--	2 818	3 528	3 148	--
Mozambique	--	515	--	--	--
Netherlands	--	--	--	6 000	26 380
New Zealand	--	118	121	631	758
Nicaragua	--	--	--	318	--
Pakistan	--	7	170	--	748
People's Republic of China	--	--	--	696	612
Singapore	--	--	696	752	733
South Korea	--	104	1 600	--	--
Spain	--	--	--	5 999	--
United States	2 064	1 650	2 607	2 851	3 689
Other Countries	1 002	14	894	1 178	2 548
TOTAL	102 700	114 879	119 476	172 686	190 659
TOTAL VALUE (\$'000)	61 907	66 489	85 073	118 783	113 776

Source: Statistics Canada, Catalogue No. 65-004

Table 12

CANADIAN EXPORTS OF CANOLA/RAPESEED MEAL

(Tonnes)

<u>DESTINATION</u>	<u>1977</u>	<u>1978</u>	<u>1979</u>	<u>1980</u>	<u>1981</u>
Chile	--	--	3 836	--	--
Germany, West	57 565	94 005	56 932	98 074	31 513
Ireland	1 000	--	950	525	4 330
Japan	4 001	11 822	108	1 494	--
Korea, South	--	--	3 849	--	--
Netherlands	7 967	6 209	3 382	24 795	18 593
Norway	24 395	30 666	51 054	64 367	49 799
Taiwan	2 051	5 699	--	80	4 059
United Kingdom	21 968	21 597	35 564	2 825	35 381
United States	8 232	992	6 792	14 780	39 097
Other	9 212	--	33	16	--
TOTAL	136 393	170 990	162 500	206 956	182 772
TOTAL VALUE (\$'000)	19 639	25 056	27 931	37 447	36 934

Source: Statistics Canada, Catalogue No. 65-004

Table 13

QUALITY DATA * FOR WESTERN CANADIAN CANOLA/RAPESEED, SURVEY SAMPLES OF 1980 AND 1981 CROPS

	1980 SURVEY			1981 SURVEY		
	Oil ^{1/} Content	Erucic Acid Content	Protein Content	Oil ^{1/} Content	Erucic Acid Content	Protein Content
<u>WESTERN CANADA</u>						
All Grades	43.0	1.1	38.2	41.4	1.0	40.2
<u>ALL GRADES BY PROVINCES</u>						
Manitoba	42.6	0.3	40.2	40.6	0.5	41.6
Saskatchewan	43.7	0.7	38.8	42.1	0.8	40.3
Alberta	42.5	1.6	37.1	41.5	1.6	39.7

^{1/} Oil content of seed is reported on a 8.5% moisture basis.

^{2/} Expressed as percent of total fatty acids in the oil.

^{3/} Protein content is reported on the oil-free meal and an 8.5% moisture basis.

* Data derived from composite of samples.

Table 14

SUMMERFALLOW AND STUBBLE CULTIVATION

OF CANOLA/RAPESEED

<u>Seeded Area</u>	<u>Summer-fallow</u>	<u>Stubble</u>	<u>Total</u>
- hectares -			
1977	978 146	438 284	1 425 430
1978	1 809 389	922 298	2 731 687
1979	2 029 000	1 289 000	3 318 000
1980	1 429 000	594 000	2 023 000
1981	867 000	549 000	1 416 000
<hr/>			
<u>Distribution</u>	- per cent -		
1977	69	31	100
1978	66	34	100
1979	61	39	100
1980	71	29	100
1981	61	39	100
<hr/>			
<u>Average Yield Per Seeded Hectare</u>	- tonnes per hectare -		
1977	1.451	1.171	1.357
1978	1.306	1.138	1.250
1979	1.063	.984	1.032
1980	1.288	.987	1.200
1981	1.328	1.124	1.249
<hr/>			
<u>Production</u>	- tonnes -		
1977	1 422 027	512 565	1 934 592
1978	2 363 240	1 050 077	3 413 317
1979	2 156 000	1 269 000	3 425 000
1980	1 841 000	586 000	2 427 000
1981	1 151 000	617 000	1 768 000

Source: Statistics Canada, Catalogue No. 22-002

Table 15

CANOLA/RAPESEED VARIETIES, AREA SEEDED AND PERCENTAGE OF
EACH VARIETY BY PRAIRIE PROVINCES - 1981

VARIETY	MANITOBA		SASKATCHEWAN		ALBERTA		PRAIRIES	
	%	Hectares ('000s)	%	Hectares ('000s)	%	Hectares ('000s)	%	Hectares ('000s)
Altex*	8.4	22.1	17.9	94.2	29.7	186.2	21.5	311.3
Candle*	8.4	22.1	20.8	109.4	45.6	285.9	29.8	431.5
Midas	-	-	4.0	21.0	0.4	2.5	1.6	23.2
Regent*	57.5	151.2	38.5	202.5	5.3	33.2	27.0	391.0
Torch	8.5	22.4	7.2	37.9	11.1	69.6	9.2	133.2
Tower*	15.1	39.7	8.2	43.1	6.8	42.6	8.8	127.4
R-500	-	-	2.0	10.5	-	-	0.7	10.1
Others	2.1	5.5	1.4	7.4	1.1	6.9	1.4	20.3
	100.0	263.0	100.0	526.0	100.0	627.0	100.0	1,448.0

* Varieties designated "Canola"

Source: Grain Research Laboratory, Canadian Grain Commission, Winnipeg

Table 16

CANADIAN CANOLA/RAPSEED PRICES^{1/}
(Crop Year)

<u>M O N T H</u>	<u>1976/77</u>	<u>1977/78</u>	<u>1978/79</u>	<u>1979/80</u>	<u>1980/81</u>
.....\$ per tonne.....					
August	232.37	264.20	295.93	333.57	306.82
September	246.03	277.56	313.04	333.50	307.58
October	226.19	285.45	310.50	318.17	325.36
November	255.73	285.45	315.21	318.32	358.35
December	242.07	270.59	315.14	309.80	335.05
January	254.85	281.31	314.86	308.23	338.48
February	347.44	292.15	337.94	310.07	330.39
March	313.94	318.50	327.87	291.46	328.19
April	365.08	337.45 ^{2/}	303.91	264.15	336.50
May	369.05	340.97	309.97	292.13	339.05
June	334.88	323.90	322.12	312.25	334.26
July	279.98	287.16	326.76	317.53	333.73
YEARLY AVERAGE	288.80	298.06	316.03	309.10	331.15

^{1/} Winnipeg Grain Exchange
No. 1 Canadian Rapeseed,
basis in-store Thunder Bay,
\$/tonne.

^{2/} As of April 1, 1978, basis
in-store Vancouver, \$/tonne.

CHAPTER 4

THE CANADIAN SOYBEAN SITUATION

Supply and Disposition - Soybeans

In crop year 1980/81, soybean production increased to a record 713 200 tonnes. Imports declined slightly and exports, mainly of food-grade soybeans, expanded to 141 959 tonnes. The domestic crush volume was virtually unchanged at 929 700 tonnes.

Soybean Oil

Production of soybean oil increased marginally in crop year 1980/81 to 158 900 tonnes. Imports of soybean oil declined, reflecting increased use and competition from Canola oil. Exports of soybean oil increased to 18 700 tonnes.

Soybean Meal

Soy meal imports were reduced in 1980/81 while exports increased. To some degree, this is a result of the increased use of Canola meal in Eastern Canada.

Table 17

CANADIAN SUPPLY AND DISPOSITION OF SOYBEANS,

SOYBEAN OIL AND SOYBEAN MEAL

(Crop Year)

<u>SOYBEANS</u>	<u>1976/77</u>	<u>1977/78</u>	<u>1978/79</u>	<u>1979/80</u>	<u>1980/81</u>
			(Tonnes)		
Production	250 384	580 000	515 600	671 000	713 200
Imports	391 608	262 835	350 400	422 000	394 676
Exports	24 820	64 173	90 900	54 000	141 959
Domestic Crushings	684 995	728 400	742 600	938 400	929 700
<u>SOYBEAN OIL</u>					
Imports	26 704	28 100	26 100	29 100	7 600
Exports	--	1 400	1 800	9 000	18 700
Domestic Production	115 616	125 600	129 000	157 000	158 900
<u>SOYBEAN MEAL</u>					
Imports	339 244	376 300	480 300	439 100	368 700
Exports	51 333	45 600	41 300	42 700	74 100
Domestic Production	540 689	575 400	576 700	738 300	731 700

Source: Statistics Canada, Catalogue Nos. 22-006, 22-007

Table 18

CANADIAN EXPORTS OF SOYBEANS
(Tonnes)

<u>DESTINATION</u>	<u>1977</u>	<u>1978</u>	<u>1979</u>	<u>1980</u>	<u>1981</u>
France	75	8 749	195	331	108
Hong Kong	6 502	14 291	8 876	11 893	13 328
Hungary	3	--	--	--	5
Ireland	--	--	--	3 750	--
Japan	10 976	34 940	6 498	20 848	49 360
Korea, South	--	--	--	320	687
Malaysia	227	1 744	394	1 481	2 222
Netherlands	3 941	5 463	609	361	1 042
Singapore	2 950	13 027	26 416	27 543	13 162
Spain	8 885	--	--	--	18
Taiwan	397	--	--	--	--
United Kingdom	246	--	--	--	--
United States	94	30	593	6 585	8 880
U.S.S.R.	--	--	--	19 309	27 025
Other Countries	3 541	5 826	4 338	3 333	4 147
TOTAL	37 837	84 152	46 919	95 754	119 984
TOTAL VALUE (\$'000)	11 047	24 375	14 869	35 007	46 191

Table 19

CANADIAN IMPORTS OF SOYBEANS AND SOYBEAN OIL

(Tonnes)

SOYBEANS

<u>Country of Origin</u>	<u>1977</u>	<u>1978</u>	<u>1979</u>	<u>1980</u>	<u>1981</u>
Chile	--	--	4	--	--
Hong Kong	6	17	44	51	75
Japan	8	--	--	--	7
People's Republic of China	9	57	51	22	--
Singapore	4	2	2	--	--
United Kingdom	8	--	--	--	--
United States	317 935	324 369	350 991	476 996	373 880
TOTAL	317 970	324 445	351 092	477 071	373 962
TOTAL VALUE (\$'000)	98 953	91 245	107 807	141 901	115 000

SOYBEAN OIL

Country of Origin

United States	28 138	28 069	22 234	12 139	4 294
TOTAL	28 138	28 069	22 234	12 139	4 294
TOTAL VALUE (\$'000)	17 216	19 070	16 710	8 548	2 926

Table 20

IMPORTS OF SOYBEAN OIL BY PROVINCE

	1977	1978	1979	1980	1981
Tonnes	'000 of \$	Tonnes	'000 of \$	Tonnes	'000 of \$
Nova Scotia	--	--	--	1/	--
New Brunswick	1 199	791	1 773	1 351	1 163
Quebec	436	282	936	752	205
Ontario	16 367	10 321	14 796	10 156	11 916
Manitoba	4 160	2 191	2 563	1 585	2 285
Saskatchewan	490	264	157	104	552
Alberta	3 246	1 896	5 489	3 526	4 163
British Columbia	2 238	1 468	2 355	1 596	1 950
TOTAL	28 137	17 216	28 069	19 070	22 234
					1 30 -
					30 -
					28

1/ Less than \$1,000

Source: Statistics Canada, Unpublished Data

Table 21

IMPORTS OF SOYBEAN MEAL BY PROVINCE

	1977	1978	1979	1980	1981
Tonnes	'000 of \$	Tonnes	'000 of \$	Tonnes	'000 of \$
Nova Scotia	2 913	679	130	32	64
New Brunswick	7 797	2 418	9 729	2 998	11 401
Quebec	99 456	26 329	103 390	28 260	101 246
Ontario	84 149	21 713	114 857	28 222	153 275
Manitoba	68 543	16 507	86 357	19 517	95 377
Saskatchewan	20 127	5 235	20 806	5 022	33 915
Alberta	38 634	9 564	46 306	11 501	49 976
British Columbia	29 681	7 861	31 083	7 501	19 303
TOTAL	351 300	90 306	412 658	103 053	464 557

Table 22

CANADIAN EXPORTS OF SOYBEAN OIL AND MEAL
(Tonnes)

SOYBEAN OIL

<u>Destination</u>	<u>1977</u>	<u>1978</u>	<u>1979</u>	<u>1980</u>	<u>1981</u>
Morocco	--	--	2 911	11 640	2 980
Netherlands	--	1 406	3 004	2 401	2 542
United Kingdom	--	--	787	--	--
United States	23	--	6	63	5 399
Venezuela	--	--	2 916	--	--
Other Countries	--	--	--	36	6
TOTAL	23	1 406	9 626	14 140	10 927
TOTAL VALUE (\$'000)	12	742	6 996	9 772	6 921

SOYBEAN MEAL

Destination

Cuba	--	--	--	25 946	24 359
Denmark	6 749	2 956	--	4 609	--
Germany, West	3 790	--	--	--	--
Hong Kong	--	800	163	109	--
Ireland	--	--	--	20 186	11 066
Netherlands	--	1 001	--	--	--
United Kingdom	34 333	41 929	21 581	24 052	12 741
United States	718	1 622	853	3 411	2 499
TOTAL	45 589	48 308	22 951	78 313	50 667
TOTAL VALUE (\$'000)	10 747	12 436	6 776	25 588	18 103

Table 23

CANADIAN SOYBEAN PRICES ^{1/}

(Crop Year)

<u>M O N T H</u>	<u>1976/77</u>	<u>1977/78</u>	<u>1978/79</u>	<u>1979/80</u>	<u>1980/81</u>
	.....	.....	\$ per tonne	.....	.....
August	211.96	207.49	257.86	292.65	293.57
September	227.76	186.63	250.90	290.22	317.98
October	211.09	197.44	273.58	263.02	319.01
November	221.38	197.43	270.43	255.38	347.64
December	243.97	215.75	276.95	255.24	313.15
January	248.43	209.95	277.73	233.64	305.20
February	260.69	205.98	303.40	247.84	297.05
March	304.65	243.13	306.70	233.05	290.76
April	344.51	259.88	297.29	228.91	306.49
May	347.45	273.40	295.20	238.93	304.08
June	298.82	266.61	321.21	242.56	291.22
July	224.82	256.72	308.36	285.61	287.99
YEARLY AVERAGE	262.25	226.98	286.83	255.59	306.18

^{1/} Ontario soybean, No. 2. Ontario Ministry of Agriculture and Food, Producers Price.

CHAPTER 5

THE CANADIAN FLAXSEED SITUATION

Production

In crop year 1980/81, production of flaxseed declined by over 40 per cent, reflecting larger carry-in stocks from the previous year. Large production swings from year to year are not unusual for this crop, as can be seen from a comparison of flaxseed production over the past five crop years.

Exports - Seed, Oil and Meal

Flaxseed exports show no particular trend although crop year 1980/81 saw the largest volume exported since 1971/72. The main importing countries are West Germany, the United States, Japan and the Netherlands.

Linseed oil was exported in fair volume during 1981 to the Netherlands and Switzerland, while linseed meal found markets in West Germany, the United States and Trinidad-Tobago.

Table 24

CANADIAN SUPPLY AND DISPOSITION OF FLAXSEED,

LINSEED OIL AND LINSEED MEAL

(Crop Year)

<u>FLAXSEED</u>	<u>1976/77</u>	<u>1977/78</u>	<u>1978/79</u>	<u>1979/80</u>	<u>1980/81</u>
(Tonnes)					
Stocks, Starting ^{1/}	380 640	280 400	470 000	391 600	587 300
Production	276 875	402 400	571 500	815 400	464 800
Imports	<u>3/</u>	<u>3/</u>	98	--	--
Exports	332 708	337 500	538 369	448 800	562 800
Domestic Crushings	<u>x^{2/}</u>	<u>x^{2/}</u>	<u>x^{2/}</u>	<u>x^{2/}</u>	<u>x^{2/}</u>
<u>LINSEED OIL</u>					
Exports	4 525	4 597	7 146	4 744	7 895
Domestic Production	<u>x^{2/}</u>	<u>x^{2/}</u>	<u>x^{2/}</u>	<u>x^{2/}</u>	<u>x^{2/}</u>
<u>LINSEED MEAL</u>					
Exports	3 679	2 015	5 064	8 012	12 187
Domestic Production	<u>x^{2/}</u>	<u>x^{2/}</u>	<u>x^{2/}</u>	<u>x^{2/}</u>	<u>x^{2/}</u>

^{1/} Total stocks in all positions.

^{2/} Confidential - to meet secrecy requirements of the Statistics Act.

^{3/} Less than one tonne.

Source: Statistics Canada, Catalogue No. 22-007, and unpublished data.

Table 25

CANADIAN EXPORTS OF FLAXSEED

(Tonnes)

<u>DESTINATION</u>	<u>1977</u>	<u>1978</u>	<u>1979</u>	<u>1980</u>	<u>1981</u>
Australia	--	--	--	--	5 176
Austria	--	--	10	--	--
Belgium-Luxembourg	11 658	20 209	9 215	11 919	12 828
Czechoslovakia	5 836	--	3 001	20 638	10 419
Denmark	614	3 849	2 500	699	--
France	6 722	17 427	14 168	2 140	5 058
Germany, West	117 479	140 737	161 056	119 604	170 832
Greece	--	--	3 055	5 819	--
Hong Kong	--	--	--	--	5
Italy	--	--	1 915	1 526	--
Japan	78 984	100 863	99 424	107 357	101 137
Korea, North	269	--	--	--	--
Korea, South	3 373	3 934	5 351	--	--
Mexico	--	--	--	17 000	16 348
Netherlands	25 799	74 800	111 472	52 058	89 687
Spain	11 315	4 329	6 761	2 573	4 093
Sweden	2 279	206	208	852	421
Switzerland	9 020	1 118	8 961	13 630	17 194
Taiwan	911	6 217	180	1 165	297
United Kingdom	13 892	11 724	33 942	11 330	38 097
United States	41 107	23 427	50 929	33 625	127 906
U.S.S.R.	--	--	22 677	--	--
Venezuela	--	--	--	--	16
TOTAL	329 366	409 417	534 825	401 935	599 515
TOTAL VALUE (\$'000)	93 538	102 424	168 788	137 267	226 386

Source: Statistics Canada, Catalogue No. 65-004.

Table 26

CANADIAN IMPORTS OF FLAXSEED

(Tonnes)

<u>COUNTRY OF ORIGIN</u>	<u>1977</u>	<u>1978</u>	<u>1979</u>	<u>1980</u>	<u>1981</u>
United States	51	26	98	459	65
Other Countries	18	--	--	5	--
TOTAL	69	26	98	464	65
TOTAL VALUE (\$'000)	45	10	42	150	35

Source: Statistics Canada, Catalogue No. 65-007

Table 27

CANADIAN EXPORTS OF LINSEED OIL
(Tonnes)

<u>DESTINATION</u>	<u>1977</u>	<u>1978</u>	<u>1979</u>	<u>1980</u>	<u>1981</u>
Belgium-Luxembourg	1 717	1 811	--	--	--
Netherlands	1 724	1 524	3 468	3 716	7 967
Switzerland	--	--	1 007	--	4 419
United Kingdom	2 241	2 944	--	--	--
United States	27	29	141	--	24
Venezuela	7	20	1	11	9
Other Countries	1	--	33	36	8
TOTAL	5 717	8 099	4 650	3 763	12 427
TOTAL VALUE (\$'000)	2 786	3 390	2 929	2 694	9 465

Source: Statistics Canada, Catalogue No. 65-004

Table 28

CANADIAN EXPORTS OF LINSEED CAKE AND MEAL

(Tonnes)

<u>DESTINATION</u>	<u>1977</u>	<u>1978</u>	<u>1979</u>	<u>1980</u>	<u>1981</u>
Germany, West	--	--	--	3 719	11 281
Netherlands	3 201	3 187	2 785	3 766	--
Trinidad-Tobago	91	26	18	--	17
United States	1 430	2 370	1 715	1 278	1 170
TOTAL	4 726	5 583	4 518	8 763	12 468
TOTAL VALUE (\$'000)	741	1 087	1 029	2 162	3 014

Source: Statistics Canada, Catalogue No. 65-004

Table 29

QUALITY DATA FOR WESTERN CANADIAN FLAXSEED, SURVEY SAMPLES OF 1979, 1980 AND 1981 CROPS

WESTERN CANADA	Oil Content ^{1/}			Iodine Value (Wijs Units)			Protein Content ^{2/}			No. of Samples		
	1979	1980	1981	1979	1980	1981	1979	1980	1981	1979	1980	1981
	No.	CW		195	197	192	42.6	40.4	41.1	115	244	515
ALL GRADES				1979	1980	1981	1979	1980	1981	1979	1980	1981
Manitoba	43.0	42.4	40.8	196	197	191	41.9	39.8	41.6	32	135	225
Saskatchewan	42.9	43.3	41.2	196	197	192	42.0	40.6	40.6	89	95	189
Alberta	43.0	42.4	40.8	193	199	191	43.0	39.6	41.3	18	53	111
Prairies	42.9	42.7	41.2	195	197	192	42.1	40.0	41.0	139	283	525

^{1/} Oil content of seed is reported on moisture-free basis.

^{2/} Protein content is reported on oil-free meal and moisture free basis, N times 6.25.

Source: Grain Research Laboratory,
Canadian Grain Commission, Winnipeg.

Table 30

SUMMERFALLOW AND STUBBLE CULTIVATION OF FLAXSEED

<u>Seeded Area</u>	<u>Summer-fallow</u>	<u>Stubble</u>	<u>Total</u>
- <u>hectares</u> -			
1977	241 198	333 468	574 666
1978	180 089	337 920	518 009
1979	322 000	609 000	931 000
1980	190 000	385 000	575 000
1981	121 000	344 000	465 000
<u>Distribution</u> - <u>per cent</u> -			
1977	42	58	100
1978	35	65	100
1979	35	65	100
1980	33	67	100
1981	26	74	100
<u>Average Yield</u> - <u>kg. per hectare</u> -			
1977	1 201	962	1 063
1978	1 232	1 000	1 082
1979	957	833	875
1980	1 058	686	809
1981	1 256	945	1 026
<u>Production</u> - <u>tonnes</u> -			
1977	289 575	320 056	609 632
1978	220 992	337 837	558 820
1979	308 000	507 000	815 000
1980	201 000	264 000	465 000
1981	152 000	325 000	477 000

Source: Statistics Canada, Catalogue No. 22-002

Table 31

FLAXSEED VARIETIES, AREA SEEDED AND PERCENTAGE OF
EACH VARIETY BY PRAIRIE PROVINCES - 1981

<u>VARIETY</u>	<u>MANITOBA</u>		<u>SASKATCHEWAN</u>		<u>ALBERTA</u>		<u>PRAIRIES</u>	
	%	Hectares ('000s)	%	Hectares ('000s)	%	Hectares ('000s)	%	Hectares ('000s)
Culbert	12.4	35.1	-	-	-	-	7.6	35.3
Dufferin	49.7	140.7	53.1	75.4	7.2	2.9	47.0	218.6
Linott	28.8	81.5	8.8	12.5	2.0	0.8	20.4	94.9
Noralta	3.0	8.5	26.4	37.5	52.9	21.2	14.5	67.4
Norland	-	-	3.5	5.0	-	-	1.1	5.1
Raja	1.7	4.8	2.1	3.0	5.3	2.1	2.1	9.8
Redwood 65	3.6	10.2	5.5	7.8	31.6	12.6	6.6	30.7
Others	0.8	2.3	0.6	0.9	1.0	0.4	0.7	3.3
TOTAL	100.0	283.0	100.0	142.0	100.0	40.0	100.0	465.0

Table 32

CANADIAN FLAXSEED PRICES ^{1/}
 (Crop Year)

<u>M O N T H</u>	<u>1976/77</u>	<u>1977/78</u>	<u>1978/79</u>	<u>1979/80</u>	<u>1980/81</u>
	.....	.....	\$ per tonne	.....	.....
August	281.18	213.77	238.10	346.23	363.91
September	282.56	218.30	251.94	361.05	373.27
October	274.94	220.15	270.36	355.95	374.53
November	265.83	218.34	268.93	334.45	413.13
December	262.38	209.83	271.14	304.83	400.31
January	273.85	205.30	297.52	310.48	382.18
February	281.83	209.44	345.26	320.49	361.79
March	291.52	230.74	339.31	310.49	361.14
April	333.10	249.53	329.39	287.28	379.60
May	302.69	258.84	324.66	309.76	387.43
June	219.62	249.81	352.18	329.20	369.74
July	242.61	231.02	355.84	377.20	365.93
YEARLY AVERAGE	274.31	225.97	303.72	328.95	377.75

^{1/} Winnipeg Grain Exchange No. 1 CW
 Flaxseed Basis Thunder Bay

CHAPTER 6

THE CANADIAN SUNFLOWERSEED SITUATION

Production

The area, yield and production data is given for crop year 1981/82 and 1980/81. Production increased slightly in 1981/82 to 174 800 tonnes from 166 100 the previous year. Area was reduced but yields were higher in 1981.

Exports - Seed

Sunflowerseed exports in 1981 reached 100 047 tonnes, up slightly from 1980. West Europe and the United States were the principal market outlets.

Imports - Oil

Sunflowerseed oil imports amounted to only 63 tonnes in 1981, valued at \$71,000, with the United States as sole supplier.

Table 33

CANADIAN SUNFLOWERSEED: ACREAGE, YIELD AND PRODUCTION

(Crop Year)

	<u>1977/78</u>	<u>1978/79</u>	<u>1979/80</u>	<u>1980/81</u>	<u>1981/82</u>
- <u>Hectares</u> -					
Manitoba	66 775	82 153	154 000	129 000	117 000
Saskatchewan	--	4 452	7 300	7 300	4 000
Alberta	--	--	--	--	--
Canada - TOTAL	66 775	86 605	161 300	136 300	121 000
- <u>Yield - Kilograms/Hectare</u> -					
Manitoba	1 188	1 325	1 355	1 231	1 462
Saskatchewan	--	1 120	1 247	1 000	950
Alberta	--	--	--	--	--
Canada - AVERAGE	1 188	1 314	1 350	1 219	1 445
- <u>Production - Tonnes</u> -					
Manitoba	79 379	108 863	208 700	158 800	171 000
Saskatchewan	--	4 990	9 100	7 300	3 800
Alberta	--	--	--	--	--
Canada - TOTAL	79 379	113 853	217 800	166 100	174 800

Source: Statistics Canada, Catalogue No. 22-002

Table 34

CANADIAN EXPORTS OF SUNFLOWERSEED
(Tonnes)

<u>DESTINATION</u>	<u>1977</u>	<u>1978</u>	<u>1979</u>	<u>1980</u>	<u>1981</u>
Australia	15	37	44	33	--
Belgium-Luxembourg	--	--	--	5 351	108
Czechoslovakia	6 998	--	--	--	--
Germany, West	344	43 607	59 553	33 912	28 427
Mexico	--	--	--	3 488	--
Netherlands	14 284	17 999	5 380	13 878	15 282
Portugal	--	--	--	8 651	14 851
Spain	--	40	3 458	--	1 094
Panama	--	--	--	4 080	--
Sweden	5	72	75	283	1 095
United Kingdom	19	340	8 069	7 566	29
United States	2 949	3 913	12 236	17 703	35 348
Other Countries	1 489	16	417	938	3 813
TOTAL	26 103	74 119	89 231	95 793	100 047
TOTAL VALUE (\$'000)	6 225	21 675	25 757	28 379	33 063

Source: Statistics Canada, Catalogue No. 65-004

Table 35

CANADIAN IMPORTS OF SUNFLOWERSEED OIL
(Tonnes)

<u>COUNTRY OF ORIGIN</u>	<u>1977</u>	<u>1978</u>	<u>1979</u>	<u>1980</u>	<u>1981</u>
United States	59	164	458	29	63
Other Countries	--	7	2	2	--
TOTAL	59	171	460	31	63
TOTAL VALUE (\$'000)	43	136	343	29	71

Source: Statistics Canada, Catalogue No. 65-007

CHAPTER 7

THE CANADIAN MUSTARDSEED SITUATION

Production

Statistics Canada data for 1980/81 and 1981/82 crop years is shown for area, yield and production of mustardseed. All three-area, yield, production - increased in 1981 over the previous year. This crop is grown to a large extent under contract.

Trade

Mustardseed was exported to 13 countries in 1981. Exports amounted to 71 319 tonnes valued at \$27 million, up slightly from 1980.

Imports into Canada of ground mustard declined to 224 tonnes, valued at \$975,000. The United Kingdom was the principal supplier of this commodity in 1981.

Table 36

CANADIAN MUSTARDSEED: ACREAGE, YIELD AND PRODUCTION

(Crop Year)

	<u>1977/78</u>	<u>1978/79</u>	<u>1979/80</u>	<u>1980/81</u>	<u>1981/82</u>
- <u>Hectares</u> -					
Manitoba	16 188	25 091	10 000	18 000	17 000
Saskatchewan	40 469	52 601	40 000	55 000	45 000
Alberta	16 997	20 234	14 000	20 000	14 000
Canada - TOTAL	73 654	97 936	64 000	93 000	76 000
- <u>Yield - Kilograms/Hectare</u> -					
Manitoba	1 011	1 159	950	906	1 012
Saskatchewan	1 179	959	670	891	1 029
Alberta	910	1 191	971	1 270	1 357
Canada - AVERAGE	1 081	1 056	780	975	1 086
- <u>Production - Tonnes</u> -					
Manitoba	16 329	29 038	9 500	16 300	17 200
Saskatchewan	47 627	50 363	26 800	49 000	46 300
Alberta	15 422	24 047	13 600	25 400	19 000
Canada - TOTAL	79 378	103 448	49 900	90 700	82 500

Source: Statistics Canada, Catalogue No. 22-002

Table 37

CANADIAN EXPORTS OF MUSTARDSEED
(Tonnes)

<u>DESTINATION</u>	<u>1977</u>	<u>1978</u>	<u>1979</u>	<u>1980</u>	<u>1981</u>
Australia	22	6	18	18	14
Belgium-Luxembourg	435	--	749	5 902	55
Czechoslovakia	--	308	--	--	--
Germany, West	2 157	7 622	6 169	8 189	8 373
India	--	2 958	6 596	--	--
Japan	7 024	6 701	5 369	7 496	7 009
Mexico	196	429	449	180	305
Netherlands	14 138	25 435	17 742	13 767	17 547
Spain	--	--	254	109	145
Sweden	--	34	54	36	43
Switzerland	1 108	--	--	150	822
United Kingdom	18	171	151	68	67
United States	31 312	29 378	29 080	29 932	36 310
Venezuela	--	32	53	57	36
Other Countries	28	9	704	445	593
TOTAL	56 438	73 339	67 388	66 350	71 319
TOTAL VALUE (\$'000)	19 660	25 208	21 757	22 765	27 032

Source: Statistics Canada, Catalogue No. 65-004

Table 38

CANADIAN IMPORTS OF GROUND MUSTARD
(Tonnes)

<u>COUNTRY OF ORIGIN</u>	<u>1977</u>	<u>1978</u>	<u>1979</u>	<u>1980</u>	<u>1981</u>
Hong Kong	1/	--	--	1/	5
United Kingdom	241	220	221	353	199
United States	98	43	27	16	17
Other Countries	9	20	19	1/	3
TOTAL	349	284	267	371	224
TOTAL VALUE (\$'000)	548	625	779	1 100	975

1/ Less than one tonne

Source: Statistics Canada, Catalogue No. 65-007

CHAPTER 8

SPECIFIED AND DEODORIZED FATS AND OILS

Canadian production of deodorized vegetable oils increased by 5 per cent in 1981. Canola oil production increased by 14 per cent over 1980. The production of all deodorized oils (vegetable, animal, marine) increased by 4.6 per cent to 467 029 tonnes. Data on certain individual oils continues to be unavailable due to confidentiality requirements.

Data is presented individually for the main oils imported and exported in 1981.

Footnotes to some tables are changed slightly from previous issues as necessitated by the availability or non-availability of official data for some products.

Table 39.CANADIAN PRODUCTION OF DEODORIZING OILS

(Tonnes)

Vegetable Oils	1980			1981		
	Margarine Oil	Shortening Oil	Salad Oil	Total	Margarine Oil	Shortening Oil
Coconut	x	x	x	12 597	x	x
Corn	x	x	x	25 181	x	x
Cottonseed	x	x	x	x	x	x
Palm	x	x	x	16 074	3 590	10 296
Peanut	x	x	x	x	x	x
Canola	38 654	65 531	79 084	183 269	46 036	72 806
Soybean	61 093	x	x	124 841	62 918	44 836
Sunflowerseed	x	x	x	15 288	x	x
Other Vegetable	x	x	x	x	x	x
Total Vegetable Oils	120 473	154 362	116 813	391 648	127 330	156 878
Total Deodorized Oils (Veg., animal, marine)	122 985	206 599	116 813	446 397	x	x

x Confidential to meet secrecy requirements
of the Statistics Act.

Source: Statistics Canada, Catalogue No. 32-006

Table 40

CANADIAN IMPORTS OF VEGETABLE OILS AND FATS (NES)

(Tonnes)

<u>COUNTRY OF ORIGIN</u>	<u>1977</u>	<u>1978</u>	<u>1979</u>	<u>1980</u>	<u>1981</u>
Austria	2	--	--	1	--
Brazil	15	60	--	--	18
Denmark	23	4	12	--	--
France	2	1	3	14	5
Germany, West	9	27	6	4	4
Hong Kong	47	66	70	157	73
India	1/	--	--	96	1 096
Japan	98	74	90	89	150
Lebanon	--	--	--	--	9.
Netherlands	1	20	8	--	18
Paraguay	--	14	--	--	--
People's Republic of China	19	15	4	2	--
Singapore	--	--	3	4	5
Switzerland	6	2	--	2	2
United Kingdom	512	258	140	845	634
United States	1 528	2 690	1 706	2 829	2 677
Yugoslavia	8	22	--	2	29
TOTAL	2 270	3 235	2 032	4 048	4 724
TOTAL VALUE (\$'000)	3 111	3 823	3 290	7 924	11 713

1/ Less than one tonne

Table 41

CANADIAN IMPORTS OF COCOA BUTTER

(Tonnes)

<u>COUNTRY OF ORIGIN</u>	<u>1977</u>	<u>1978</u>	<u>1979</u>	<u>1980</u>	<u>1981</u>
Belgium-Luxembourg	--	35	222	--	--
Brazil	416	213	128	481	407
Cuba	75	72	163	100	50
Ecuador	180	--	40	--	25
Germany, West	170	262	663	336	281
Ivory Coast	178	231	108	234	296
Jamaica	10	10	15	31	15
Mexico	--	--	--	202	331
Netherlands	1 453	1 677	991	856	897
Nigeria	--	100	--	--	--
United Kingdom	1 714	717	272	395	817
United States	636	245	815	888	1 128
Other Countries	--	--	78	194	258
TOTAL	4 835	3 562	3 495	3 717	4 505
TOTAL VALUE (\$'000)	24 618	18 841	22 323	29 432	32 023

Source: Statistics Canada, Catalogue No. 65-007

Table 42

<u>COUNTRY OF ORIGIN</u>	<u>CANADIAN IMPORTS OF COCONUT OIL</u>				
	(Tonnes)				
	<u>1977</u>	<u>1978</u>	<u>1979</u>	<u>1980</u>	<u>1981</u>
Australia	1/	359	--	--	--
Brazil	--	--	299	--	--
Jamaica	3	2	4	--	7
Malaysia	4 664	1 934	5 577	4 918	6 008
Philippines	18 827	15 607	15 480	14 066	16 156
Sri Lanka	156	2 785	2 475	--	--
United Kingdom	1	3	2	14	307
United States	567	1 623	1 872	946	588
Other Countries	--	--	3	272	9
TOTAL	24 218	22 313	25 712	20 216	23 075
TOTAL VALUE (\$'000)	14 447	15 126	28 914	16 492	15 896

1/ Less than one tonne

Source: Statistics Canada, Catalogue No. 65-007

Table 43

CANADIAN IMPORTS OF CORN OIL
(Tonnes)

<u>COUNTRY OF ORIGIN</u>	<u>1977</u>	<u>1978</u>	<u>1979</u>	<u>1980</u>	<u>1981</u>
United States	15 482	19 707	16 627	17 284	16 223
TOTAL	15 482	19 707	16 627	17 284	16 223
TOTAL VALUE (\$'000)	10 612	18 154	14 214	11 946	10 787

Source: Statistics Canada, Catalogue No. 65-007

Table 44

CANADIAN IMPORTS OF COTTONSEED OIL

(Tonnes)

<u>COUNTRY OF ORIGIN</u>	<u>1977</u>	<u>1978</u>	<u>1979</u>	<u>1980</u>	<u>1981</u>
United States	5 497	4 723	4 285	4 616	2 680
TOTAL	5 497	4 723	4 285	4 616	2 680
TOTAL VALUE (\$'000)	3 376	3 162	3 402	3 153	1 783

Source: Statistics Canada, Catalogue No. 65-007

Table 45

CANADIAN IMPORTS OF OLIVE OIL
(Tonnes)

<u>COUNTRY OF ORIGIN</u>	<u>1977</u>	<u>1978</u>	<u>1979</u>	<u>1980</u>	<u>1981</u>
France	15	35	23	29	24
Greece	107	218	311	261	417
Italy	737	920	915	1 097	872
Portugal	155	162	169	106	112
Spain	3 750	1 266	1 111	2 576	1 282
United States	62	213	147	227	167
Other Countries	14	--	--	--	3
TOTAL	4 840	2 814	2 676	4 296	2 877
TOTAL VALUE (\$'000)	3 406	4 923	5 941	6 802	6 821

Source: Statistics Canada, Catalogue No. 65-007

Table 46

CANADIAN IMPORTS OF PALM OIL

(Tonnes)

<u>COUNTRY OF ORIGIN</u>	<u>1977</u>	<u>1978</u>	<u>1979</u>	<u>1980</u>	<u>1981</u>
Indonesia	15 249	16 254	9 946	5 507	504
Malaysia	13 972	5 840	6 186	4 585	13 793
Netherlands	8	508	--	119	--
Singapore	--	--	1 025	9 553	586
United States	1 941	573	1 199	203	285
Other Countries	9	30	10	1	17
TOTAL	31 179	23 205	18 366	19 968	15 185
TOTAL VALUE (\$'000)	17 142	14 763	13 608	13 422	9 873

Source: Statistics Canada, Catalogue No. 65-007

Table 47

CANADIAN IMPORTS OF PALM KERNEL OIL

(Tonnes)

<u>COUNTRY OF ORIGIN</u>	<u>1977</u>	<u>1978</u>	<u>1979</u>	<u>1980</u>	<u>1981</u>
Denmark	7	16	15	15	34
Indonesia	3 905	1 605	1 002	--	--
Malaysia	2 941	4 552	7 134	8 565	7 682
Netherlands	--	--	--	--	5
Singapore	--	250	--	--	--
United States	339	845	655	328	872
Other Countries	--	--	1	--	10
TOTAL	7 192	7 252	8 807	8 908	8 603
TOTAL VALUE (\$'000)	3 236	5 387	9 182	7 282	5 880

Source: Statistics Canada, Catalogue No. 65-007

Table 48

CANADIAN IMPORTS OF PEANUT OIL

(Tonnes)

<u>COUNTRY OF ORIGIN</u>	<u>1977</u>	<u>1978</u>	<u>1979</u>	<u>1980</u>	<u>1981</u>
Brazil	604	--	1 498	--	--
Hong Kong	40	52	38	31	41
United States	6 201	6 393	3 922	4 944	4 094
Other Countries	--	9	3	2	2
TOTAL	6 845	6 460	5 461	4 977	4 137
TOTAL VALUE (\$'000)	5 582	6 964	5 761	4 224	4 840

Source: Statistics Canada, Catalogue No. 65-007

Table 49

CANADIAN EXPORTS OF VEGETABLE OILS & FATS (NES)

(Tonnes)

<u>DESTINATION</u>	<u>1977</u>	<u>1978</u>	<u>1979</u>	<u>1980</u>	<u>1981</u>
Algeria	--	--	--	--	8 393
Barbados	46	53	138	54	30
Cuba	3	3	3	3	3
Emirates, UA	--	--	11	--	--
France	--	--	2 044	--	1 003
Germany, West	3	--	1	25	492
Guyana	4	383	--	4	--
Japan	--	--	--	--	877
Leeward-Windward Is.	100	41	190	180	141
Netherlands	57	41	2 475	--	3 465
Saudi Arabia	32	15	--	--	--
Trinidad-Tobago	159	2 059	780	818	872
United Kingdom	66	47	28	1	793
United States	855	702	1 468	545	1 398
Other Countries	88	167	73	598	83
TOTAL	1 413	3 512	7 220	2 228	18 343
TOTAL VALUE (\$'000)	918	1 915	5 530	3 027	13 734

Source: Statistics Canada, Catalogue No. 65-004

Table 50

MANUFACTURERS PACKAGED SALES OF SPECIFIED FATS AND OILS PRODUCTS

(Thousands of Tonnes)

	<u>1977</u>	<u>1978</u>	<u>1979</u>	<u>1980</u>	<u>1981</u>
Margarine ^{1/}	136	111	128	130	142
<u>Shortening</u>					
Packaged ^{2/}	90	94	99	x ^{5/}	17
Bulk ^{3/}	81	85	N.A.	82	85
Salad Oils ^{4/}	101	99	61	56	56

^{1/} Includes retail and commercial packages.
Commercial sales (21-450 pound) packages
account for about 20 per cent of total output.

^{2/} Retail packages up to 20 pounds only.

^{3/} Covers commercial (21-450 pound) packages,
bulk and other than packaged retail sales
of manufacturers of shortening and deodorized
shortening oil. Includes baking and frying
fats and oils.

^{4/} Retail, commercial and industrial sales.

^{5/} Confidential

Source: Statistics Canada, Catalogue No. 32-006

Table 51

CANADIAN IMPORTS OF LARD AND SHORTENING

(Tonnes)

<u>COUNTRY OF ORIGIN</u>	<u>1977</u>	<u>1978</u>	<u>1979</u>	<u>1980</u>	<u>1981</u>
France	3	1	9	17	20
Germany, West	3	9	16	16	15
Greece	--	23	11	11	36
Sweden	45	33	--	--	--
United States	31 880	31 241	13 938	12 177	11 730
Other Countries	--	10	--	3	6
TOTAL	31 931	31 317	17 437	12 213	11 807
TOTAL VALUE (\$'000)	18 972	22 128	10 492	8 086	7 433

Source: Statistics Canada, Catalogue No. 65-007

Table 52

CANADIAN EXPORTS OF MARGARINE, SHORTENING AND LARD

(Tonnes)

<u>DESTINATION</u>	<u>1977</u>	<u>1978</u>	<u>1979</u>	<u>1980</u>	<u>1981</u>
Bahrain	--	6	6	--	--
Bermuda	15	27	20	17	19
Colombia	--	--	--	--	5
Emirates, UA	64	41	72	--	--
Dominican Rep.	--	--	--	--	2
Germany, West	2	1	1	2	4
Hong Kong	--	--	11	66	29
Jamaica	4	--	--	--	--
Japan	--	3	--	--	--
Jordan	16	--	43	--	--
Kuwait	46	95	108	--	--
Lebanon	190	203	92	2	67
Leeward-Windward Is.	19	45	88	70	144
Netherlands-Antilles	32	40	92	79	127
Poland	--	--	--	--	55
Puerto Rico	--	72	--	--	--
Qatar	11	12	--	--	--
Saudi Arabia	64	665	280	--	--
St. Pierre-Miquelon	41	37	34	26	37
Trinidad-Tobago	1	--	18	--	--
United Kingdom	--	--	2	--	1
United States	122	311	88	200	13
TOTAL	634	1 559	955	462	504
TOTAL VALUE (\$'000)	770	1 914	1 316	376	574

Table 53

CANADIAN IMPORTS OF VEGETABLE COOKING FATS
AND PACKAGED SALAD OILS
(Tonnes)

<u>COUNTRY OF ORIGIN</u>	<u>1977</u>	<u>1978</u>	<u>1979</u>	<u>1980</u>	<u>1981</u>
France	1	1	3	--	--
Greece	12	18	--	--	3
Sweden	1	4	5	--	1
United Kingdom	4	10	5	3	2
United States	404 —	127 —	10 —	32 —	55 —
TOTAL	423 —	163 —	23 —	35 —	61 —
TOTAL VALUE (\$'000)	342 —	213 —	26 —	32 —	89 —

Source: Statistics Canada, Catalogue No. 65-007

Table 54

CANADIAN IMPORTS OF TALLOW, ANIMAL OILS, GREASES AND FATS (NES)
(Tonnes)

<u>COUNTRY OF ORIGIN</u>	<u>1977</u>	<u>1978</u>	<u>1979</u>	<u>1980</u>	<u>1981</u>
Australia	--	12	1 181	2	4
Germany, West	41	51	1	8	27
United Kingdom	--	11	5	36	18
United States	2 900	7 418	4 924	5 998	4 475
Other Countries	7	14	--	29	15
TOTAL	2 948	7 506	6 111	6 073	4 539
TOTAL VALUE (\$'000)	1 521	2 138	3 463	3 589	3 030

Source: Statistics Canada, Catalogue No. 65-007

Table 55

CANADIAN EXPORTS OF TALLOW, ANIMAL OILS AND FATS (NES)

(Tonnes)

<u>DESTINATION</u>	<u>1977</u>	<u>1978</u>	<u>1979</u>	<u>1980</u>	<u>1981</u>
Belgium-Luxembourg	798	2 203	988	--	1 590
Brazil	--	6	18	18	--
Chile	249	--	280	669	551
Colombia	22	28	--	17	--
Cuba	5 600	3 026	3 001	4 963	4 802
Dominican Republic	--	--	320	845	2 004
France	2 362	3 682	3 524	8 004	6 071
Germany, West	2 112	898	5 071	9 633	3 542
Guatemala	517	17	22	39	53
Iran	--	1 079	--	--	--
Ireland	--	--	220	26	449
Italy	--	--	--	--	1
Ivory Coast	496	1 178	--	--	--
Jamaica	338	--	--	59	25
Japan	25 111	23 719	28 176	34 580	36 467
Kenya	110	1 550	200	175	--
Korea, South	26 269	22 996	25 801	21 245	31 082
Leeward-Windward Is.	1	--	20	8	47
Malaysia	146	118	72	237	135
Mexico	44	11	--	--	18
Morocco	--	600	325	1 151	--
Netherlands	38 105	47 483	54 991	62 807	72 867
People's Republic of China	8 630	3 065	4 065	3 049	3 324
Portugal	145	211	210	160	217
Singapore	51	18	46	33	109
Spain	9 343	6 997	2 018	791	2 610
Switzerland	169	236	232	261	351
Taiwan	2 900	1 950	600	900	--
Trinidad-Tobago	486	504	1 364	765	1 240
United Kingdom	18 064	25 234	13 598	13 459	12 529
United States	4 456	4 889	8 374	9 462	5 312
Venezuela	1 132	208	228	333	151
Zaire	--	200	--	--	--
Other Countries	104	5	1 018	1 357	1 016
 TOTAL	 140 829	 140 115	 154 578	 175 046	 186 563
 TOTAL VALUE (\$'000)	 54 856	 68 256	 97 500	 92 742	 98 174

CHAPTER 9

FISH AND MARINE OILS AND MEALS

Canadian Trade

Exports of marine oils in 1981 rose slightly to 9 050 tonnes over the 1980 level of 8 569 tonnes. Imports of marine oils fell to 431 tonnes from 529 tonnes in 1980.

Exports of fish meal and condensed solubles increased to 32 795 tonnes valued at \$17.6 million. The imports of fish meal during 1981 increased sharply to 1 807 tonnes from 323 tonnes in 1980.

Table 56

CANADIAN EXPORTS OF MARINE OILS BY TYPES

(Tonnes)

<u>TYPE</u>	<u>1977</u>	<u>1978</u>	<u>1979</u>	<u>1980</u>	<u>1981</u>
Cod Liver Oil, Sun Rotted	915	1 546	1 162	1 032	915
Herring Oil	4 124	3 679	6 274	6 274	4 196
Whale Oil	14	11	--	8	3
Fish and Marine Animal Oil NES	10 987	4 161	4 004	2 805	3 936
TOTAL	16 040	9 397	11 440	8 569	9 050
TOTAL VALUE (\$'000)	3 950	4 633	4 407	4 575	4 353

Source: Statistics Canada, Catalogue No. 65-004

Table 57

CANADIAN IMPORTS OF FISH AND MARINE ANIMAL OILS (NES)

(Tonnes)

<u>COUNTRY OF ORIGIN</u>	<u>1977</u>	<u>1978</u>	<u>1979</u>	<u>1980</u>	<u>1981</u>
Japan	9	10	--	18	31
Netherlands	--	16	--	--	--
Norway	3	155	135	193	99
United Kingdom	5	182	66	98	68
United States	393	288	107	219	232
Other Countries	--	3	--	1	1
TOTAL	410	654	308	529	431
TOTAL VALUE (\$'000)	263	699	381	883	729

Source: Statistics Canada, Catalogue No. 65-007

Table 58

CANADIAN EXPORTS OF FISH MEAL AND CONDENSED SOLUBLES

(Tonnes)

<u>TYPE</u>	<u>1977</u>	<u>1978</u>	<u>1979</u>	<u>1980</u>	<u>1981</u>
Herring Meal and Pilchard Meal	11 181	11 484	7 054	8 086	7 597
Fish Meal NES	16 445	23 546	19 084	22 283	24 973
Fish Condensed Homogenized Solubles	307	517	--	350	225
TOTAL (Meal Only)	27 933	35 547	26 138	30 719	32 795
TOTAL VALUE (Meal Only) (\$'000)	11 367	16 520	12 461	14 761	17 614

Source: Statistics Canada, Catalogue No. 65-004

Table 59

CANADIAN IMPORTS OF FISH MEAL
(Tonnes)

<u>COUNTRY OF ORIGIN</u>	<u>1977</u>	<u>1978</u>	<u>1979</u>	<u>1980</u>	<u>1981</u>
France	--	--	12	--	--
Ireland	--	--	--	--	1
Taiwan	13	--	--	--	--
United Kingdom	--	2	21	12	10
United States	451	340	275	311	1 796
TOTAL	464	342	308	323	1 807
TOTAL VALUE (\$'000)	153	91	111	80	522

Source: Statistics Canada, Catalogue No. 65-007

CHAPTER 10

OTHER INEDIBLE FATS AND OILS

Castor oil imports increased in 1981 to 1 740 tonnes, up 47 per cent from the 1980 level of 1 183 tonnes. The imports of tung oil, tall oil, tall oil pitch, tall oil fatty acids, mixtures and derivatives of oils, fats, waxes and chemically modified oils, fats and waxes all increased in value and volumes.

The exports of chemically modified oils, fats and waxes also increased in both volume and value during 1981.

Table 60

CANADIAN IMPORTS OF CASTOR OIL
(Tonnes)

<u>COUNTRY OF ORIGIN</u>	<u>1977</u>	<u>1978</u>	<u>1979</u>	<u>1980</u>	<u>1981</u>
Brazil	257	843	970	--	1 194
Ecuador	29	250	--	--	--
United States	1 025	591	751	781	546
United Kingdom	--	--	--	402	--
TOTAL	<u>1 311</u>	<u>1 684</u>	<u>1 721</u>	<u>1 183</u>	<u>1 740</u>
TOTAL VALUE (\$'000)	<u>1 343</u>	<u>1 719</u>	<u>1 729</u>	<u>1 546</u>	<u>1 861</u>

Source: Statistics Canada, Catalogue No. 65-007

Table 61

CANADIAN IMPORTS OF CHINAWOOD OIL OR TUNG OIL
(Tonnes)

<u>COUNTRY OF ORIGIN</u>	<u>1977</u>	<u>1978</u>	<u>1979</u>	<u>1980</u>	<u>1981</u>
Argentina	29	160	115	43	28
Paraguay	223	85	14	56	48
United States	433	380	448	427	458
Other Countries	14	55	63	--	79
TOTAL	699	680	640	526	613
TOTAL VALUE (\$'000)	1 371	1 662	982	642	948

Source: Statistics Canada, Catalogue No. 65-007

Table 62

CANADIAN IMPORTS OF TALL OIL, TALL OIL PITCH
AND TALL OIL FATTY ACIDS
(Tonnes)

<u>TALL OIL AND TALL OIL PITCH</u>	<u>1977</u>	<u>1978</u>	<u>1979</u>	<u>1980</u>	<u>1981</u>
United States	757	1 167	1 394	1 135	1 184
<u>TALL OIL FATTY ACIDS</u>					
United States	5 159	4 577	4 753	4 014	4 386
Other Countries	--	--	--	--	36
TOTAL	5 916	5 744	6 147	5 149	5 606
TOTAL VALUE (\$'000) .	3 252	3 322	3 306	3 210	3 101

Source: Statistics Canada, Catalogue No. 65-007

Table 63

CANADIAN IMPORTS OF MIXTURES AND DERIVATIVES
OF OILS, FATS AND WAXES
(Tonnes)

<u>COUNTRY OF ORIGIN</u>	<u>1977</u>	<u>1978</u>	<u>1979</u>	<u>1980</u>	<u>1981</u>
Brazil	--	45	43	27	61
Germany, West	116	43	76	66	31
Netherlands	--	28	6	177	--
Norway	237	257	180	469	475
United Kingdom	604	3	948	832	127
United States	10 555	9 833	13 598	13 397	14 857
Other Countries	2	2	2	2	19
TOTAL	11 516	11 271	14 853	14 970	15 570
TOTAL VALUE (\$'000)	10 969	13 746	19 589	23 348	23 798

Source: Statistics Canada, Catalogue No. 65-007

Table 64

CANADIAN IMPORTS OF CHEMICALLY MODIFIED OILS,

FATS AND WAXES

(Tonnes)

<u>COUNTRY OF ORIGIN</u>	<u>1977</u>	<u>1978</u>	<u>1979</u>	<u>1980</u>	<u>1981</u>
Brazil	40	40	260	59	--
France	--	1	2	3	1
Germany, West	69	79	65	104	72
India	--	--	--	28	91
Netherlands	116	281	270	353	373
United Kingdom	53	99	10	122	33
United States	5 848	7 363	3 184	3 875	4 300
Other Countries	3	1	--	1	--
TOTAL	6 132	7 865	3 791	4 545	4 870
TOTAL VALUE (\$'000)	5 405	8 581	4 810	6 345	6 600

Source: Statistics Canada, Catalogue No. 65-007

Table 65

CANADIAN EXPORTS OF CHEMICALLY MODIFIED OILS,

FATS AND WAXES

(Tonnes)

<u>DESTINATION</u>	<u>1977</u>	<u>1978</u>	<u>1979</u>	<u>1980</u>	<u>1981</u>
Australia	--	91	61	--	--
Bahamas	--	--	2	--	--
Barbados	--	--	3	3	<u>1/</u>
Bermuda	--	1	1	--	--
Chile	--	--	5	--	--
Hong Kong	--	--	--	25	--
Leeward-Windward Is.	<u>1/</u>	--	2	<u>1/</u>	1
Netherlands-Antilles	--	1	--	<u>1/</u>	453
United Kingdom	150	--	2	--	1
United States	3 100	4 004	2 877	2 780	2 629
U.S.S.R.	508	--	--	--	--
Venezuela	86	48	1	2	--
Other Countries	--	--	--	2	9
TOTAL	<u>3 846</u>	<u>4 191</u>	<u>2 954</u>	<u>2 810</u>	<u>3 093</u>
TOTAL VALUE (\$'000)	<u>2 803</u>	<u>1 249</u>	<u>1 265</u>	<u>1 012</u>	<u>1 451</u>

1/ Less than one tonne

Source: Statistics Canada, Catalogue No. 65-004

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